

# CreatingPivotTableInPythonUsingPandas

September 8, 2025

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[1]: import pandas as pd
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```
[2]: # creating dataframe
df = pd.DataFrame({'Product': ['Carrots', 'Broccoli', 'Banana', 'Banana',
                                'Beans', 'Orange', 'Broccoli', 'Banana'],
                   'Category': ['Vegetable', 'Vegetable', 'Fruit', 'Fruit',
                                'Vegetable', 'Fruit', 'Vegetable', 'Fruit'],
                   'Quantity': [8, 5, 3, 4, 5, 9, 11, 8],
                   'Amount': [270, 239, 617, 384, 626, 610, 62, 90]})

df
```

```
[2]:
```

	Product	Category	Quantity	Amount
0	Carrots	Vegetable	8	270
1	Broccoli	Vegetable	5	239
2	Banana	Fruit	3	617
3	Banana	Fruit	4	384
4	Beans	Vegetable	5	626
5	Orange	Fruit	9	610
6	Broccoli	Vegetable	11	62
7	Banana	Fruit	8	90

```
[3]: pivot = df.pivot_table(index=['Product'],
                              values=['Amount'],
                              aggfunc='sum')

print(pivot)
```

	Amount
Product	
Banana	1091
Beans	626
Broccoli	301
Carrots	270
Orange	610

```
[4]: # creating pivot table of total
# sales category-wise aggfunc = 'sum'
pivot = df.pivot_table(index=['Category'],
                        values=['Amount'],
```

```
aggfunc='sum')
print(pivot)
```

	Amount
Category	
Fruit	1701
Vegetable	1197

```
[5]: pivot = df.pivot_table(index=['Product', 'Category'],
                             values=['Amount'], aggfunc='sum')
print(pivot)
```

		Amount
Product	Category	
Banana	Fruit	1091
Beans	Vegetable	626
Broccoli	Vegetable	301
Carrots	Vegetable	270
Orange	Fruit	610

```
[6]: # 'mean', 'min'} will get median, mean and
      # minimum of sales respectively
      pivot = df.pivot_table(index=['Category'], values=['Amount'],
                              aggfunc={'median', 'mean', 'min'})
print(pivot)
```

	Amount		
	mean	median	min
Category			
Fruit	425.25	497.0	90
Vegetable	299.25	254.5	62

```
[7]: pivot = df.pivot_table(index=['Product'], values=['Amount'],
                              aggfunc={'median', 'mean', 'min'})
print(pivot)
```

	Amount		
	mean	median	min
Product			
Banana	363.666667	384.0	90
Beans	626.000000	626.0	626
Broccoli	150.500000	150.5	62
Carrots	270.000000	270.0	270
Orange	610.000000	610.0	610

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